WHAT IS CLAIMED IS:

1. A channel bus splice assembly for use in switchgear equipment having channel bus bars, the channel bus splice assembly comprising:

an inner splice plate, defining a plurality of through bores;

a sliding clamp plate configured to reciprocally move within the inner splice plate, the sliding clamp plate defining a plurality of access ports;

a pair of nut plates coupled to the sliding clamp plate and having threaded orifices corresponding to selected through bores in the in inner splice plate; and

an outer splice plate having a plurality of through bores corresponding to the threaded orifices in the nut plates.

2. The channel bus splice assembly of claim 1, wherein the sliding clamp plate is an angle plate configured with two spaced apart feet which stop movement of the sliding clamp plate at pre-selected points within the inner splice plate.

3. The channel bus splice assembly of claim 2, wherein a pair of spring pins mounted in the inner splice plate contact the feet to define the distance of movement of the sliding clamp plate.

4. The channel bus splice assembly of claim 1, wherein the inner splice plate is configured to mount between the channels bus bars.

5. The channel bus splice assembly of claim 1, including a first selection of fasteners configured to pass through the access ports and insert into through bores of the inner plate wherein the inner plate is

secured to a channel bus bar and a second selection of fasteners configured to pass through the through bores in the outer splice plate and thread into the nut plates wherein another channel bus bar is coupled between the outer splice plate and inner splice plate.

6. The channel bus splice assembly of claim 5, wherein the first selection and second selection of fasteners are configured alike.

7. The channel bus splice assembly of claim 1, including an insulating cover.

8. A method of connecting first and second channel bus bars in a switchgear assembly with a channel bus splice assembly, the method comprising the steps of :

installing an inner splice plate of a channel bus splice assembly between flanges of the channel bus bars;

coupling the inner splice plate to one of the channel bus bar with interior fasteners;

coupling a pair of nut plates to a sliding clamp plate;

installing the sliding clamp plate in the inner splice plate, with the sliding clamp plate configured to reciprocally move within the inner splice plate and defining a plurality of access ports; and

mounting an outer splice plate having through bores with a exterior fasteners, exterior fasteners configured to pass through the through bores in the outer splice plate and thread into the nut plates wherein another channel bus bar is coupled between the outer splice plate and inner splice plate.

9. The method of claim 8, including the step of stopping movement of the sliding clamp plate at pre-selected points within the inner splice plate.

10. The method of claim 9, wherein the sliding clamp plate is an angle plate configured with two spaced apart feet and a pair of spring pins are mounted in the inner splice plate and aligned to contact the feet at the pre-selected points.

11. The method of claim 8, wherein the interior and exterior fasteners are configured alike.

12. The method of claim 8, including the step of replacing a member of one of the channel bus bars.

13. The method of claim 8, including the step of covering the channel bus splice assembly.

14. The method of claim 13, wherein a telescoping bus joint cover assembly is used to cover the channel bus splice assembly.

15. A method of servicing and maintaining a channel bus splice assembly connecting first and second channel bus bars in a switchgear assembly, with the channel bus splice assembly including a plurality of interior fasteners and a plurality of exterior fasteners, an inner splice plate, a sliding clamp plate having nut plates and an outer splice plate, the method comprising the steps of :

removing the exterior fasteners from the nut plates;

removing the outer splice plate;

moving the sliding clamp plate to one side until it stops, wherein access to some of the interior fasteners is obtained;

manipulating some of the interior fasteners;

moving the sliding clamp plate to another side until it stops, wherein access to other of the interior fasteners is obtained;

manipulating other of the interior fasteners; and

remounting the outer splice plate by passing the exterior fasteners through the outer splice plate and threading into the nut plates.

16. The method of claim 15, including the steps of removing a bus joint cover and reinstalling the bus joint cover.

17. The method of claim 15, wherein the step in manipulating includes one of torque and replacement of the fastener.

18. The method of claim 15, including the step of replacing a member of channel bus bar.